What is claimed is:

- 1. A negative feedback amplifier with a feedback resistor connected between an output terminal and an input terminal of an amplifier, said amplifier being powered from a first power terminal and a second power terminal, said negative feedback amplifier comprising:
- a division node between a first resistor on said input terminal's side and a second resistor on said output terminal's side which together constitute said feedback resistor;
- a first diode having a first electrode connected to said first power terminal, and a second electrode connected to said division node; and
- a second diode having a first electrode connected to said second power terminal, and a second electrode connected to said division node.
- 2. The negative feedback amplifier according to claim 1, further comprising:
- a third diode having a first electrode connected to said division node, and a second electrode connected to said first power terminal; and
- a fourth diode having a first electrode connected to said division node, and a second electrode connected to said second power terminal.
- 3. A negative feedback amplifier with a feedback resistor connected between an output terminal and an input terminal of an amplifier, said amplifier being powered from a first

power terminal and a second power terminal, said negative feedback amplifier comprising:

a first division node and a second division node, said first and second division node provided between a first resistor and a second resistor, the second resistor and a third resistor respectively, said first to third resistors being arranged from said input terminal's side to said output terminal's side in order, and together constituting said feedback resistor;

a first diode having a first electrode connected to said first power terminal, and a second electrode connected to said first division node;

a second diode having a first electrode connected to said second power terminal, and a second electrode connected to said first division node;

a third diode having a first electrode connected to said second division node, and a second electrode connected to said first power terminal; and

a fourth diode having a first electrode connected to said second division node, and a second electrode connected to said second power terminal.

- 4. The negative feedback amplifier according to claim 1, wherein said diode connected between said power terminal and said division node comprises a plurality of elements connected in series.
- 5. The negative feedback amplifier according to claim 2, wherein said diode connected between said power terminal

and said division node comprises a plurality of elements connected in series.

- 6. The negative feedback amplifier according to claim 3, wherein said diode connected between said power terminal and said division node comprises a plurality of elements connected in series.
- 7. A negative feedback amplifier with a feedback resistor connected between an output terminal and an input terminal of an amplifier, said amplifier being powered from a first power terminal and a second power terminal, said negative feedback amplifier comprising:

a division node between a first resistor on said input terminal's side and a second resistor on said output terminal's side which together constitute said feedback resistor;

a first diode having a first electrode connected to said first power terminal, and a second electrode connected to a connection node;

a second diode having a first electrode connected to said second power terminal, and a second electrode connected to said connection node; and

a third diode having a first electrode connected to said connection node, and a second electrode connected to said division node.

8. A negative feedback amplifier with a feedback resistor connected between an output terminal and an input terminal of an amplifier, said amplifier being powered from a first

power terminal and a second power terminal, said negative feedback amplifier comprising:

a first division node and a second division node, said first and second division nodes provided between a first resistor and a second resistor, the second resistor and a third resistor respectively, said first to third resistors being arranged in order from said input terminal's side to said output terminal's side, and together constituting said feedback resistor;

a first diode having a first electrode connected to said first power terminal, and a second electrode connected to a first connection node;

a second diode having a first electrode connected to said second power terminal, and a second electrode connected to said first connection node;

a third diode having a first electrode connected to said first connection node, and a second electrode connected to said first division node;

a fourth diode having a first electrode connected to a second connection node, and a second electrode connected to said first power terminal;

a fifth diode having a first electrode connected to said second connection node, and a second electrode connected to said second power terminal; and

a sixth diode having a first electrode connected to said second division node, and a second electrode connected to said second connection node.

- 9. The negative feedback amplifier according to claim 7, wherein said diode connected between said power terminal and said connection node comprises a plurality of elements connected in series.
- 10. The negative feedback amplifier according to claim 8, wherein said diode connected between said power terminal and said connection node comprises a plurality of elements connected in series.
- 11. The negative feedback amplifier according to claim 1, wherein said first electrode of each of said diodes is an anode, and said second electrode thereof is a cathode.
- 12. The negative feedback amplifier according to claim 3, wherein said first electrode of each of said diodes is an anode, and said second electrode thereof is a cathode.
- 13. The negative feedback amplifier according to claim 7, wherein said first electrode of each of said diodes is an anode, and said second electrode thereof is a cathode.
- 14. The negative feedback amplifier according to claim 8, wherein said first electrode of each of said diodes is an anode, and said second electrode thereof is a cathode.
- 15. The negative feedback amplifier according to claim 1, wherein said amplifier is composed of a high-electron-mobility transistor, and each of said diodes is composed of a Schottky diode formed in the same process as said amplifier.
- 16. The negative feedback amplifier according to claim 3, wherein said amplifier is composed of a high-electron-

mobility transistor, and each of said diodes is composed of a Schottky diode formed in the same process as said amplifier.

- 17. The negative feedback amplifier according to claim 7, wherein said amplifier is composed of a high-electron-mobility transistor, and each of said diodes is composed of a Schottky diode formed in the same process as said amplifier.
- 18. The negative feedback amplifier according to claim 8, wherein said amplifier is composed of a high-electron-mobility transistor, and each of said diodes is composed of a Schottky diode formed in the same process as said amplifier.
- 19. The negative feedback amplifier according to claim 1, wherein resistance of said first resistor is 10 to 100Ω .
- 20. The negative feedback amplifier according to claim 3, wherein resistance of said first resistor is 10 to 100Ω .
- 21. The negative feedback amplifier according to claim 7, wherein resistance of said first resistor is 10 to 100Ω .
- 22. The negative feedback amplifier according to claim 8, wherein resistance of said first resistor is 10 to 100Ω .